

s/707/60/003/000/009/013 B125/B102

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AUTHORS:

Akkerman, A. F., Gusika, P. L., Kaipov, D. K.

TITLE:

γ-radiation applied to the detection of heavy element doping in a medium with small atomic number

SOURCE:

: Akademiya nauk Kazakhskoy SSR. Institut yadernoy fiziki.

Trudy. v. 3, 1960. Vzaimodeystviye vysckoenergichnykh chastits s atomnymi yadrami, 124-130

TEXT: Possibilities are discussed of detecting heavy elements in orebearing rocks by a variant of the Monte Carlo method developed by the authors (Trudy Instituta yadernoy fiziki Akademii nauk Kazakhskoy SSR) for calculating the transmission of radiation through matter. 200 125-Mev Y-quanta (E≈2.447 m_oc²) incident perpendicularly on two types of specimen, 10 cm thick, composed of a homogeneous aluminum lead mixture, one with a lead content of 5 and the other with one of 10 percent in weight, were studied by the authors. In addition, a "selection" of the partner (i.e. of the aluminum or the lead atom) was introduced into the calculating scheme. The probability for interaction with the aluminum Card 1/8

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y-radiation applied to the ...

s/707/60/003/000/009/013 B125/B102

atoms in the mixture is given by $P = \sigma_{Al} \cdot N_{Al} / (\sigma_{Al} \cdot N_{Al} + \sigma_{Pb} \cdot N_{Pb})$, where σ_{Al} and σ_{Pb} are the total cross sections of the interactions with the aluminum and lead atoms; N_{A1} and N_{Pb} are the numbers of Al and Pb atoms per cm³ of the mixture. The results of the calculations are shown with others in Fig. 3 and Fig. 5. Photoabsorption occurs practically only on lead. With increasing lead concentration, the maxima of photoabsorption are shifted toward higher energies. At the same time the whole energy distribution changes. The share of the heavy element in the mixture becomes noticeable in certain sections of the spectrum of both forward and backscattered radiation and can be determined experimentally. This confirms the ideas of selective core sampling by y-rays. In the range of relatively high concentrations the method of selective core sampling is of low efficiency owing to the small difference of the spectra of scattered radiation at a lead content of 5 % and 10 %. With increasing concentration of the heavy element doping, selective core sampling passes to impervious core sampling. Selective core sampling by y-rays can be employed if the lead doping is less than 5 %, impervious core sampling if it is more than 5 %. The

Card 2/6

y-radiation applied to the ...

S/707/60/003/000/009/013 B125/B102

percentage of dopings in ore-bearing rocks cannot be evaluated precisely since the data hitherto available are insufficient. The ore content could, however, be estimated from the ratio of intensities in a definite section of the spectrum and from the shift of the maximum of photoabsorption on the energy scale. The doping percentage can be evaluated by selective core sampling with the use of a luminescence spectrometer. Ye. Akkoshkarov and F. A. Tulinova are thanked for their assistance in carrying out the calculations. There are 7 figures, 1 table, and 5 references: 4 Soviet and 1 non-Soviet. The reference to the English-language publication reads as follows: C. C. Horton Rep. A.E.R. ERS/L3, 1953.

Legend to Fig. 3: Energy spectra of photoabsorbed y-quanta: 1-Al + 5% Pb; 2-Al + 10 % Pb.

Legend to Fig. 5: Spectra of forward scattered y-quanta for a mixture: 1-Al + 5 % Pb; 2-Al + 10 % Pb.

Card 3/6

\$/031/60/000/012/003/003 A161/033

24.6720(1482,1138,1158) AUTHORS:

Akkerman, A.F.; Kaipov, D.K.; Shubnyy, Yu.K.

TITLE:

Resonance Scattering of 7-Rays on Ni 60

PDRIODICAL:

Vestnik Akademii nauk Kazakhskoy SSR, 1960, No. 12, pp. 36 - 44

TEXT: The lifetime and spin of the first excitation state of Ni 60 have been measured using the γ -rays resonance scattering method. The measuring results are given and the ways are indicated to raise the accuracy of the resonance scattering cross section determination, as well as for the possible study of beta decay. The increase of incident T-rays energy to resonance energy was achieved by utilizing the nuclear recoil in preciding beta decay and gamma radiation. The Co decay system is considered (Fig. 1) and the energy of emitted τ_2 cos α + E $\frac{v}{c}$ (3) where v - is v - v

recoil nucleus velocity from β -radiation, directed at θ angle to the escape direction of the γ_2 - quantum; V - the velocity of the recoil nucleus from γ_1 quantum; V_Z - the projection of thermal motion velocity on the γ_2 direction;

Card 1/4

Resonance Scattering of 7 -Rays on Ni 60

\$/031/60/000/012/003/003 A161/A033

 \propto - the angle between the escape directions of γ_1 and γ_2 quanta. (The thermal motion effect is not taken into account in the further calculations). Considering that the deceleration time in gases at atmospheric pressure is of the order $10^{-10^{-1}}$ sec, the relation between the excited level lifetime γ_2 and the resonance scattering cross section 0cp is determined by the formula $\gamma_1 = \frac{2J^2 + 1}{2J_0 + 1}$.

 $\frac{2.53}{\text{E2} \cdot \text{OCP}} \frac{\text{N (Ep)}}{\text{N}}, \text{ where } \frac{\text{N (Ep)}}{\text{N}} \text{ is the } \gamma\text{-quanta fraction} = \frac{2J^* + 1}{2J_0 + 1}.$ $\frac{\text{E2} \cdot \text{OCP}}{\text{N}} \frac{\text{N (Ep)}}{\text{N}}, \text{ where } \frac{\text{N (Ep)}}{\text{N}} \text{ is the } \gamma\text{-quanta fraction} = \frac{2J^* + 1}{2J_0 + 1}.$ $\frac{\text{E2} \cdot \text{OCP}}{\text{N}} \frac{\text{N (Ep)}}{\text{N}}, \text{ where } \frac{\text{N (Ep)}}{\text{N}} \text{ is the } \gamma\text{-quanta fraction} = \frac{2J^* + 1}{2J_0 + 1}.$ $\frac{\text{E2} \cdot \text{OCP}}{\text{N}} \frac{\text{N (Ep)}}{\text{N (Ep)}}, \text{ where } \frac{\text{N (Ep)}}{\text{N (Ep)}} \text{ is the } \gamma\text{-quanta fraction} = \frac{2J^* + 1}{2J_0 + 1}.$ $\frac{\text{E2} \cdot \text{OCP}}{\text{N (Ep)}}, \text{ where } \frac{\text{N (Ep)}}{\text{N (Ep)}} \text{ is the } \gamma\text{-quanta fraction} = \frac{2J^* + 1}{2J_0 + 1}.$

scintillation spectrometer used for y-quanta recording is illustrated (Fig. 4). The source was CoCl₂ of 2mCu activity. The ampule with dryed CoCl₂ was evacuated to 10 mm Hg, sealed and placed into a steel container which was heated to 1050°C, so that all CoCl₂ turned into gas. A lead block 70 mm in diameter and 200 mm length protected the detector from direct hits of y-quanta, and it recorded quanta scattered from a round nickel scatterer; y-radiation was detected by a NaI (T1) crystal of 30 mm diameter and 40 mm height, sonnected to an db9y 29 (PEU 29). The lifetime calculated with the formula (5) for 1330 kev level for Ni was Ty = (1.24 + 0.28) · 10-12 sec, or about 5 times shorter of single-particle transi-

Card 2/4

monance Scattering of "-Rays on Mi

S/031/60/000/012/003/003 \161/A033

tion lifetime (Ref. 2) (Adler, A. Bohr, T. Hous, B. Mottelson, A. Finther. Rev. U.A. Phys., 28, 432 (1956). The first excitation level spin of Mi was determined to be equal 2. The formula is only roughly approximate, and though the lifetime determined in the experiment tallies with the data of (Ref. 5) (F.R. Motter. Phys. Rev. 103, 983, 1956) the lifetime determination assuracy is 20%, as in (Ref. 5). Student-diplomant E. Vil'kovskiy of the Kasakhasaya SSR State University participated in the calculations. There are 7 figures and 3 references of unich 7 are Soviet and 2 English.

Figure 1:

Smeltation of the Hi^{60} nucleus by quanta

Card 3/4

20160 \$/031/60/000/012/003/003 Resonance Scattering of γ -Rays on $\mathrm{K1}^{60}$ A161/A033 Migure 2: "Microspectrum of incident Layout of experimental Figure 4: Valiation taking into account chemical installation. bonds No (2) 1.2 0,3 24 -40 -30 -10 -10 - энергия у лучей (38) относительно Ерез Рис. 2. «Микроспектр» падающего излучения с учетом химических связей. Рис. 4. Схема экспериментальной установки. Card 4/4

8/056/60/039/003/056/058/XX B006/B070

24.6100 AUTHORS:

Kaipov, D. K., Shubnyy, Yu. K.

TITLE:

The Effect of Collisions of Recoil Nuclei Upon the

Resonance Scattering Cross Section of Gamma Rays by Ni 60 Nuclei

PERIODICAL:

Zhurnal eksperimental noy i teoreticheskoy faziki, 1960, Vol. 39, No. 3(9), pp. 888 - 889

TEXT: In the present "Letter to the Editor", the authors report on their investigations of the resonance scattering of 1530-kev gamma rays by Ni 60 nuclei with gaseous and liquid Co 60 sources (in the form of CoCl₂). In an earlier paper (Ref.3), the authors had obtained a value of (17.1±3).10⁻²⁷cm² for the resonance scattering cross section. This cross section is very sensitive to the source medium density and the lifetime of the level investigated. In a hydrochloric acid solution of CoCl₂ (~40 millicuries), τ_y was found to be (1.14 \pm 0.37).10 12 sec, which Card 1/3

The Effect of Collisions of Recoil Nuclei S/056/60/039/003/056/058/XX Upon the Resonance Scattering Cross B006/B070

Section of Gamma Rays by Ni 60 Nuclei

agrees well with the results of other authors. The resonance scattering cross section for the liquid source was found to be $(1.73 \pm 0.2).10^{-27} {\rm cm}^2$. There exists a relation $\ddot{\sigma} = (1/2\tau_{\gamma})\sigma_{\alpha}\pi h P(E_p)$, between τ_{γ} and the mean resonance scattering cross section $\ddot{\sigma}_{\gamma}$, $P(E_p)$ being the energy distribution of the γ quanta. The slowing down of the recoil nuclei is taken into account by introducing the factor $1 \exp(-1/v\tau_{\gamma})$ into this relation, where v is the velocity of the recoil nucleus and 1 the path length of this nucleus before collision. For a gaseous source, the factor is practically equal to one. With this, the ratio of the average resonance scattering cross sections for the gaseous source $(\ddot{\sigma}_1)$ and the liquid scurce $(\ddot{\sigma}_2)$ is found to be $\ddot{\sigma}_1/\ddot{\sigma}_2 = 1 \exp(-1/v\tau_{\gamma})$ with $\tau_{\gamma} = (1.1 \pm 0.1).10^{-12} {\rm sec}$ and $v = 7.2.10^5 {\rm cm/sec}$, $1 = 8.10^{-8} {\rm cm}$ since $\ddot{\sigma}_1/\ddot{\sigma}_2 = 9.9$. The authors thank $O_{\rm sc}$ Suvarov for participation in the Card 2/3

\$/089/61/010/004/019/027 B102/B205

26,2246

AUTHORS:

Akkerman, A. F., Kaipov, D. K.

TITLE:

Monte Carlo calculation of the passage of gamma rays from a plane oriented Cs^{137} source through aluminum under condi-

tions corresponding to barrier geometry

PERIODICAL: Atomnaya energiya, v. 10, no. 4, 1961, 391-392

TEXT: The method of polynomial expansion by L. Spencer and U. Fano (Res. Nat. Bur. Standards, 46, 446 (1951)) is extensively used to solve the transport equation for gamma quanta. The very difficult computations can be simplified by a straightforward relation suggested by Roys et al. (Phys. Rev. 95, 911 (1954)) for the growth factor:

$$B = A_1 \exp(-\alpha_1 \mu_0 z) + A_2 \exp(-\alpha_2 \mu_0 z) \qquad (1)$$

where μ_0 symbolizes the linear attentuation factor of gamma radiation in matter. However, experiments have shown that growth factors calculated from Eq. (1) were much greater than the actual values. This finding is related to the fact that the theory is based on the assumption of an Card 1/4

Monte Carlo calculation...

S/089/61/010/004/019/027 B102/B205

infinitely large scattering medium (energy flux from all sides), whereas barrier geometry is employed in practice (energy flux from one side). The influence of the geometry is the greater the weaker the source, viz., the greater the penetration depth of radiation. The Monte Carlo method has now been used to verify what has been said above and to obtain suitable relations for the growth factors. A study has been made of the passage of

gamma rays from a plane Cs 137 source through aluminum under conditions corresponding to barrier geometry. The source was oriented such that the angle of incidence was zero. The method of calculation was chosen according to Ref. 7. The great advantage of this method is its high degree of accuracy (9.5 % in this case). Agreement with the experiment was found to be good. The energy growth factor proved to be virtually a linear function of the penetration depth z. Fig. 3 shows the dose growth factor B as calculated from the formula

$$B_{D} = \left[\sum_{i=1}^{20} \mu_{e}(E_{i})I(E_{i})\right] / \left[\mu_{e}(E_{o})I(E_{o})\right] + 1,$$

where $\mu_e(E_i)$ indicates the absorption coefficient of gamma quanta of energy Card 2/4

. Mon e Carlo calculation...

3/089/61/010/004/019/027 3102/3205

Ei in air, I(Ei) the energy flux of scattered radiation in the i-th interval after passing through a material layer of thickness z, I(Eo) the energy flux of non-scattered radiation at the same depth. It is seen that the growth factor calculated from Eq. (1) (curve 2) differs considerably from the experimental values, whilst the one calculated from the formula given here (curve 1) agrees well with the experiment. M. S. Shteyn, K. S. Yakovlev, and Yu. G. Kosyak are thanked for assistance. There are three references to English-language publications read as follows: Ref. 7: M. Gerger. J. Res. Mat. Bur. Standards, 55, 343, (1955); Ref. 9: F. Perkins. J. Appl. Phys. 26, 1372 (1955); Ref. 10: F. Kirr et al. Radiology, 63, 94 (1955).

SUB HITTED: October 17, 1950

Cari 3/4

22616

AKKERMAN, A.F.; KAIPCV, D.K.; SHUBNYY, Yu.K.

Resonant scattering of gamma rays on Te¹²⁴ nuclei. Zhur. eksp. i teor. fiz. 40 no.4:1031-1032 Ap '61. (MIRA 14:7)

1. Institut yadernoy fiziki AN Kazakhskoy SSR. (Gamma rays--Scattering) (Tellurium--Isotopes)

S/707/62/005/000/010/014 D290/D308

AUTHORS:

Akkerman, A.F., Vil'kovitskiy, E.Ya. and Kaipov, D.K.

TITLE:

Doppler broadening of γ -line in gases

SOURCE:

Akademiya nauk Kazakhskoy SSR. Institut yadernoy fiziki. Trudy, v. 5. Alma-Ata, 1962. Fizika chastits vysolikh energiy. Struktura yadra, 128-134

The authors studied the effect of various factors on the γ -ray microspectra of gaseous sources; these effects are important in resonant scattering experiments with γ -rays. The structure of the microspectrum depends on the Doppler energy shifts of Y-quanta due to recoils from previous nuclear processes. The authors calculated the separate effects for a preceding β -disintegration, K-capture, and γ -transition, and then combined the results by means of probability theory to find the total effect for two typical disintegration schemes; the method can be applied to more complex and to branched disintegration schemes. The method was used to calculate the microspectrum of the B-decay of 60Co to 60Ni. The auth-

Card 1/2

Doppler broadening of ...

S/707/62/005/000/010/014 D290/D308

ors also studied the effect of thermal motion, chemical shifts, and atomic collisions on the microspectrum. The Doppler shift due to thermal motion was calculated assuming a Maxwellian velocity distribution for the gas molecules; the effect was only appreciable at the edges of the spectrum even at 1500°C. The chemical shift effect is difficult to calculate except in the simplest cases; a rough approximation is given by subtracting the energy of the shift from the recoil energy. The effect of atomic collisions was calculated on the assumption that association is negligible in the gas; that the molecular interactions are elastic, isotropic in the center-of-mass system, and their cross-section is independent of energy; and that the preceding Y-transitions have much shorter lifetimes than the resonant level. The resonant scattering cross-section for 74Ge was calculated as a function of the density of the 74As source; the results agree well with experiment. There are 5 figures.

Card 2/2

S/707/62/005/000/011/014 D290/D308

AUTHORS:

Gorbunov, A.N., Kaipov, D.K. and Kuvatov, K.G.

TITLE:

Photodisintegration of neon nuclei

SOURCE:

Akademiya nauk Kazakhskoy SSR. Institut yadernoy fiziki. Trudy, v. 5. Alma-Ata, 1962. Fizika chastits vysokikh energiy. Struktura yadra, 135-146

TEXT: The authors studied the photodisintegration of neon nuclei for photon energies up to 70 MeV; they used a cloud-chamber that contained neon and that was placed in a magnetic field of 10,510 gauss. They measured the relation between the effective cross-section of the (γ P) reaction and the photon energy E_p ; the maximum cross-section (11.48 \pm 0.81 mbarn) occurs for E_p = 18-20 MeV, which indicates that the 19F nucleus is formed in an excited state. The yields and cross-sections of various types of reaction were measured; the integral absorption cross-section is 0.588 \pm 0.0085 barn-MeV. The value of σ_b (σ_b = $\frac{\sigma(E)}{E}$ dE) is 17.58 \pm 0.25 mbarn; this

Card 1/2

Photodisintegration of meon nuclei

S/707/62/005/000/011/014 D290/D308

agrees well with the value calculated for electric dipole absorption using the independent particle model of the nucleus. The root-mean-square radius of charge distribution R_c for the neon nucleus (R_c = 2.529 x 10-13 cm) and the nuclear unit radius r_o (r_o = 1.183 x 10-13 cm) were calculated from σ_b . The polarizability of nuclear matter σ_{-2} was calculated (σ_{-2} = 0.619 mbarn/Nev); this value agrees well with the theoretical value found using the collective model of the nucleus. The proton angular distributions were measured for the (γ_o), (γ_o), and (γ_o) reactions; the results confirm the direct dipole absorption of γ_o -quanta by separate nucleons. The proton angular distribution for the (γ_o) reaction is isotropic for γ_o = 5 MeV, but strongly favors the forward direction for γ_o = 5 MeV; this may indicate that quasi-deuteronic absorption occurs at high energies. The most important English-language reference reads as follows: Levinger, J.S., Bethe, H.A., Phys. Rev., 78, 115, 1950. There are 8 figures and 3 tables.

Card 2/2

S/120/62/000/005/025/036 E192/E382

9,4160

AUTHORS: Kaipov, D.K., Kozhaspayev, N. and Pavlov, A.F.

Stabilization of the gain of photomultipliers TITLE:

PERIODICAL: Pribory i tekhnika eksperimenta, no. 5, 1962, 151 - 153

TEXT: The stabilization system is suitable for spectrometric and time-resolving photomultipliers and is based on adjusting their supply voltage as a function of a control signal produced by a coincidence circuit. The stabilization system is illustrated in Fig. 1. The amplifier, based on tube J1

 $(J_1 = T_1)$, has a gain of about 10 and the pulses to this amplifier are fed either from the anode or the dynode of the photomultiplier. The amplifier is stabilized by a strong negative feedback. The coincidence circuit, based on ${
m T_2}$, is also

very stable and its pedestal is low. One of the inputs of the coincidence circuit receives a pulse from the univibrator based on T10 . After passing through the coincuitionals, it is applied

'Card 1/43

Stabilization of

S/120/62/000/005/025/036 E192/E382

to the amplitude-detector T_3 , whose time constant $R_{16}^{C_5}$ matched with the time constant of the high-voltage rectifier. This is followed by a cathode-follower T_{4} . A vibrating relay PN -5 is used as a voltage-chopper, the reference-voltage level being provided by a divider R_{18}/R_{19} . The reference voltage is derived from a 75-V stabilizer tube T_8 , which is first stabilized by T_q (see Fig. 1). The low-frequency amplifier, based on T₅, T₆ and T₇, produces a signal which is applied to the phase-detector, which determines the sign of the difference and produces a direct voltage proportional to the difference between the direct component of the detected pulse voltage : due to the standard sparks and the reference source. phase-detector is coupled to the rectifier and connected in series with the source of the reference voltage. These two are then connected into the grid circuit of the first tube of the DC amplifier. The phase-detector produces a maximum output of Card 2/1/3

S/056/62/043/003/011/063 B125/B102

AUTHORS:

Kaipov, D. K., Shubnyy, Yu. K., Begzhanov, R. B., Islamov,

TITLE:

Resonance scattering of y-quanta from Sn 116 nuclei

PERIODICAL:

Zhurnal eksperimentalinoy i teoreticheskoy fiziki, v. 43, no. 3(9), 1962, 808-812

TEXT: The method of resonance scattering was applied to 1290-kev γ quanta from the Sn¹16 nuclei of a gaseous In¹16mCl₃ source (Fig. 1) to determine the lifetime of the first excited 1.29-Mev level. A similar value is obtained by the method of Coulomb excitation. The InCl₃ produced from enriched metallic indium was sublimated into a quartz appoule, which was then evacuated and subjected for 1 hr to the thermal neutron flux (~10¹5) of a BBP-C (VVR-S) reactor. Following this it was heated to scattering was measured by two symmetrically arranged scintillation Card 1/6

value agrees with that obtained from the Coulomb excitations. The considerable divergence between the lifetimes found by the two methods Card 2/4

\$/056/62/043/003/011/063 B125/B102

Resonance scattering of ...

is due to the effect of the chemical bonds in the molecule on the energy distribution of the y-quanta. The E2-transition with E - 1290 kev (solid source) is an accelerated transition with the acceleration factor 10.5. There are 5 figures.

ASSOCIATION: Institut yadernoy fiziki Akademii nauk Kazakhskoy SSR (Institute of Nuclear Physics of the Academy of Sciences Kazakhskaya SSR). Institut yadernoy fiziki Akademii nauk Uzbekskoy SSR (Institute of Nuclear Physics of the Academy

of Sciences Uzbekskaya SSR)

SUBMITTED:

April 19, 1962

Fig. 1. Schematic drawing of the experimental arrangement. Legend to Fig. 1: (1) source; (2) electric furnace; (3), (4) Sn and Cd absorber (in experiments with self-absorption); (5) lead cone; (6), (9) Sn and Cd scatterer; (7) NaJ (T1) crystal, (8) photomultiplier.

Card 3/4

3/056/62/043/004/021/061 B102/B100

AUTHORSA

Akkerman, A. F., Vil'koviskiy, E. Ya., Kaipov, D. Z.,

Chekanov, V. N.

TITLE:

Resonance scattering method of measuring the lifetime of the

4 level (1282 kev) of the Cd114 nucleus

PERIODICALA

Zhurnal eksperimental'noy i teoreticheckoy fiziki, v. 45,

no. 4(10), 1962, 1268 - 1271

TEAT: The dependence of the resonance scattering cross section on the source density was investigated with six InCl, vapor specimens in quartz ampoules enclosed in stainless steel containers, with heating from pool to 800°C to vary the density. Each ampoule had an In114 activity of 10 willicurios. That the whole CdCl3 molecule undergoes the recoil due to gamen emission in the K-capture, without any destruction of bonds, was confirmed

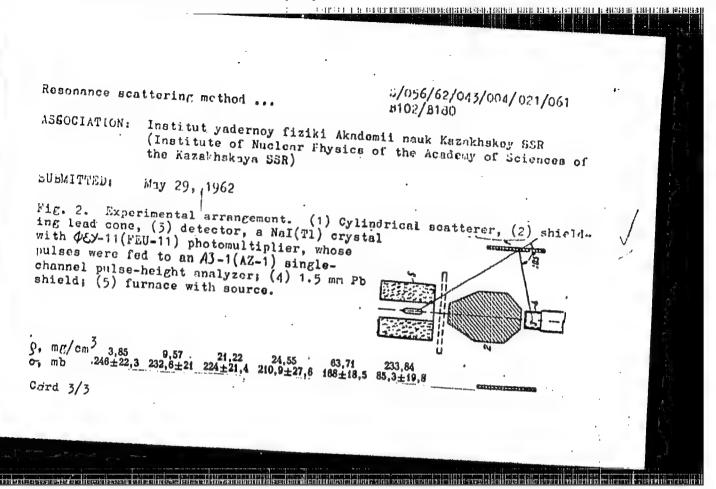
hy a special self-absorption experiment. ndgh*c*[$4 \left[\pi \left(\Delta_n^2 + \Delta_p^2 \right) \right]^{1/2} E_n^2$. (2).

relative weakening of the resonance effect as a result of additional Card 1/3 -

Resonance scattering method ...

5/056/62/043/004/021/061 B102/B180

scattering in a thin resonance absorber, was measured. Γ is the level width, which is independent of the state of the source molecule, a the number of atoms per cm³Cd, d the mean effective scatterer thickness, Δ_n , Δ_p are the Doppler widths due to the thermal motion of the absorber and scatterer atoms respectively, E is the transition energy and g the spin factor. From Γ = $(4.26\pm1.47)\cdot10^{-4}$ ev the mean lifetime of the 557-kev 2 level of the Cd 114 nucleus was calculated as Γ_1 = $(1.53\pm0.53)\cdot10^{-11}$ sec. T_2 the lifetime of the 1282-kev 4 level was calculated from the experimental curves $P(E_p) = \sqrt[4]{q}$, T_2 , $\lambda(p,d)$, where P is the number of γ -quanta per ev near E_p , λ is the mean free path of the InCl₂ molecules in a medium of density γ and collision parameter d: $\Gamma_2 = (7.5\pm1.2)\cdot10^{-12}$ sec. The theoretical Γ_2 values are highly dependent on the model used, but are always below 7.5.10 sec. A model which takes account of nucleon pair interaction and collective interaction with the surface (Phys. Rev. 114, 1116, 1959) gives the next Card 2/3



5/120/63/000/001/012/072 E032/E314

. Principia de la compressió de la compres

AUTHORS: Batalin, S.S., Kaipov. D.K. and Chekanov, V.N.

TITLE: A fast coincidence circuit for slow scintillators

PERIODICAL: Pribory i tekhnika eksperimenta, no. 1, 1963, 61 - 63

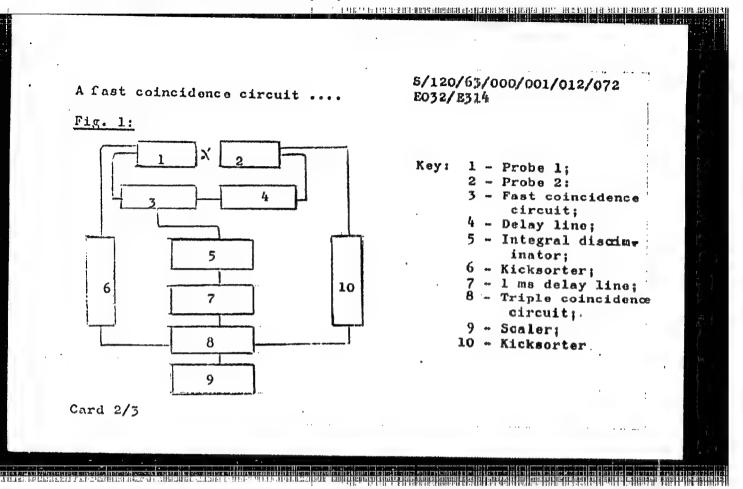
TEXT: The authors report a fast coincidence circuit designed for use with a "fast-slow" system for amplitude-analysis of selected spectral regions. The phosphors are NaI(T1) and the photomultipliers are $\Phi \to (FEU)-13$. A block diagram of the device is shown in Fig. 1. The fast coincidence circuit is shown in Fig. 2. The values of the components in the lower part of this figure are the same as in the upper part. The overall resolution obtained with Co $\theta \to 0$ was found to be 6 ns at 100% efficiency. There are 5 figures.

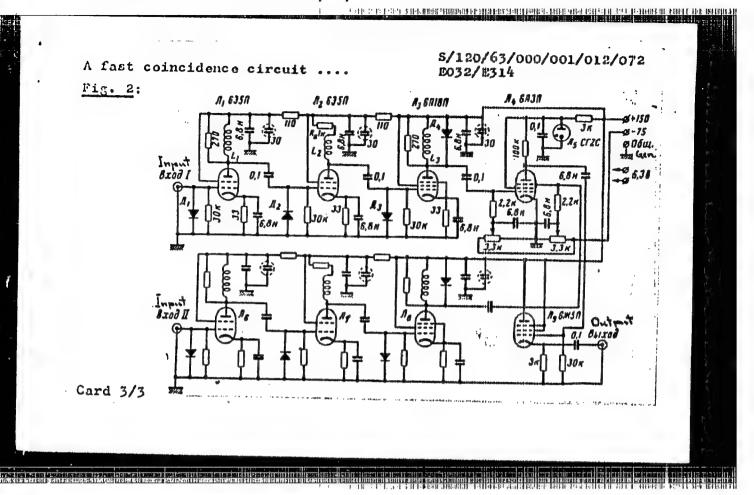
ASSOCIATION: Institut yadernoy fiziki AN KazSSR (Institute

of Nuclear Physics of the AS KaESSR)

SUBMITTED: April 10, 1962

Card 1/3.





KAIPOV, D.K.; PERTSEV, A.N.

Electric quadrupole transitions in nuclei. Trudy Inst. iad. fiz. AN Kazakh. SSR 6:71-78 63.

Fast-slow scheme of coincidences with stabilization, (79-89) (MIRA 16:10)

ACCESSION NR: AR4022436

S/0058/64/000/001/A029/A029

SOURCE: RZh. Fizika, Abs. 1A274

AUTHOR: Kaipov, D. K.; Pavlov, A. F.

TITLE: Fast-slow coincidence circuit with stabilization

CITED SOURCE: Tr. In-ta yadern. fiz. AN KazSSR, v. 6, 1963, 79-89

TOPIC TAGS: coincidence circuit, fast slow coincidence circuit, coincidence circuit with stabilization, stabilized coincidence circuit, Gamma resonance scattering, resolution time, pulse height analyzer, stabilization coefficient

TRANSLATION: A fast-slow coincidence recording unit is described, especially developed for experiments on resonance scattering of gamma quanta by nuclei, in which a small resolution time is required. The installation consists of two scintillation transmitters, a fast

Card1/2

ACCESSION NR: AR4022436

coincidence circuit, an amplifier, a discriminator, two analyzers, a slow coincidence circuit, and a mechanical counter. The equipment employs FEU-33 photomultipliers with stilbene crystals. The fast coincidence circuit is a classical current circuit with resocution time 2.9 x 10⁻⁹ sec. The analyzers are constructed in accordance with the principle of the AADO commercial pulse-height differential analyzer. A special circuit is used to stabilize the photomultiplier gain. The stabilization coefficient of the circuit by measuring the number of coincidences of gamma quanta emitted by a Co⁶⁰ source. The reproducibility of the data is satisfactory. The instability in the number of coincidences did not exceed 1% in 11 hours of continuous operation. L. I.

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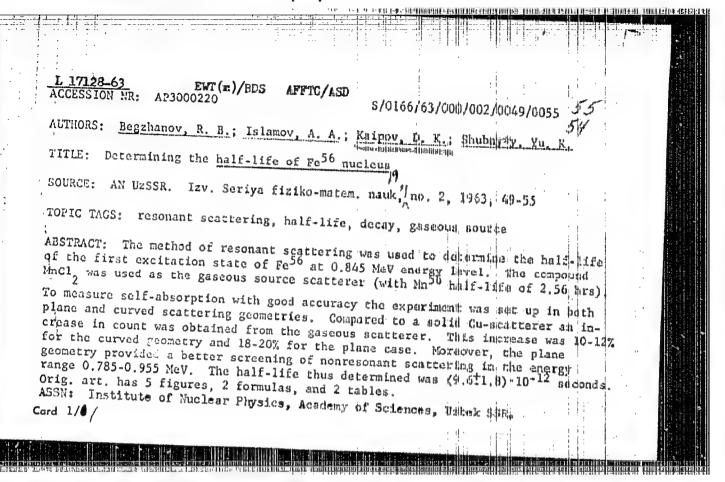
Card 2/2

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619920015-8 THE RESERVE OF THE PETROLS IN THE RELEGIOUS DESCRIPTION OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PERSON OF THE PER

(MIRA 17:8)

BECZHANOV, R.B.; KAIPOV, D.K.; SHUBNYY, Yu.K.; ISLAMOV, A.A. Lifetime of the 1.29 Mev. level in Sn116 . Inv. AN Uz.SSR. Ser. fiz.-mat. nauk 7 no.5:45-50 163.

1. Institut yadernoy fiziki AN UzSSR.



8/056/63/044/001/026/067 B104/B144

AUTHORS:

Begzhanov, R. B., Islamov, A. A., Kaipov, D. K.,

Shubnyy, Yu. K.

TITLE:

Lifetime of the 0.845 MeV level of the F_{θ} 56

PERIODICAL:

Zhurnal eksperimental'noy i teoreticheskoy fiziki, v.

no. 1, 1963, 137-141

TEXT: Resonance scattering of y-quanta on the 0.845 Mev level of Fe⁵⁶ is investigated using a ring and a plane scatterer and a self-absorption method with a gaseous MnCl source $(T_1/2)$ of Mn56 being 2.56 hrs). To determine the lifetime the mean cross section of resonance scattering was measured, and the energy distribution of the γ-quanta emitted was calculated theoretically. The annular Fe scatterer was of 37.5 cm in diameter, 13.5 cm high and 0.9 cm thick. The plane scatterer was a plate (30.30.1 cm), the mean scattering angle was 1040. The plane scatterer gave better screening of the source than the ring scatterer, and this considerably reduced the non-resonance scattering in the energy range of 0.785-0.955 Mev. To reduce the effect of Compton quanta, the Card 1/2:

Lifetime of the 0.845 Mev level ...

S/056/63/044/001/026/067 B104/B144

crystals were surrounded by a filter (3.5 mm Pb + 1 mm Cd). The $\rm Kn^{56} cl_2$ source was produced by several hours' irradiation of 2 mg $\rm Kn^{55} cl_2$ in the reactor of IYaF AN UZSSR with a neutron flux of 1.8·10¹³ cm⁻²·sec⁻¹. A lifetime of $(9.6 \pm 1.8) \cdot 10^{-12}$ sec is obtained for the first excited level of the Fe⁵⁶ nucleus. This is 1/15 of the value determined by the Weisskopf single-particle model. There are 5 figures and 2 tables.

ASSOCIATION:

Institut yadernoy fiziki Akademii nauk Uzbekskoy SSR (Institute of Nuclear Physics of the Academy of Sciences Uzbekskaya SSR); Institut yadernoy fiziki Akademii nauk Kazakhskoy SSR (Institute of Nuclear Physics of the Academy of Sciences Kazakhskaya SSR)

SUBMITTED:

August 19, 1962 (initially) September 26, 1962 (after revision)

Card 2/2

L 13624-63 EWT(m)/BDS AFFTC/ABD ACCESSION NR: AP3003102

8/005/63/04/005/1811/1817

AUTHOR: Kaipov, D. K.; Begzhanov, R. B., Kuz'minov, A. V., Shubnyey, Yo.

TITLE: Resonance scattering of Campa quanta on Cu-65 and 41-46

SOURCE: Zhurnal eksper. i teor. fiziki, v. 44, no. 6, 1963, 181 - 817

TOPIC TAGS: excited state lifetime, nuclear resonance scattering, copper-65

APSTRACT: The lifetimes of the excited states of Cu-65 and Wi-45 nuclei, at 1.114 and 0.890 MeV, respectively, were measured by nuclear reschance scattering, using gaseous sources of Ni-65 and Sc-46 in NiCl sub 2 and McCl sub 3. The NiCl sub 2 was prepared from nickel enriched to 77.8% NI-69 and Unradiated in a neutron flux of 1.8 times 10 sup 13 per sq. cm. sec in the reactor of the Institut yedernoy fiziki AN UZSSR (Institute of Nuclear Physics, AN UZSSR).

The Ni-65 and Sc-46 activities were approximately 20 millipurie. The scattered photons were detected with a NaJ(Tl) crystal combined with a photomultiplier. The energy distributions of the photons were calculated from the Ni-65 and Sc-46 decay schemes, assuming that the recoil nucleus is free and that there are no Cord 1/2

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L 19645-63 ENT (m)/HDS AFFIC/ASD ACGESSION NR: AP3007059

s/0056/63/045/003/0443/0447

AUTHORS: Kaipov, D. K.; Shubny*y, Yu. K.; Kosyak, Yu. G.; Begzhanov

TITLE: Resonance scattering of gamma rays from liquid and solid sources on Sn-116 and Cu-65 nuclei

SOURCE: Zh. eksper. i teoret. fiziki, v. 45, no. 3, 1963, 443-447

TOPIC TAGS: gamma ray, resonance scattering, liquid source, solid source, Ir-116, Ni-65, Sn-116, Cu-65

ABSTRACT: The reduction in the resonance scattering of 1.29 and 1.14 MeV gamma quanta by Sn¹¹⁶ and Cu⁶⁵ nuclei was found to be 0.055 and 0.040 when liquid sources of In¹¹⁶m and Ni⁶⁵ are used and 0.050 and 0.024 when solid sources are used. The study of the attenuation effect in liquid and solid sources, as distinguished from the gaseous sources hitherto used, can lead to conclusions about the mole-

Card 1/4

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ACCESSION NR: A#3007059

4.3

cular interactions in the source material and can also yield the lifetimes of the high-lying excited states. Various models for the interaction of the recoil nuclei with the surrounding atoms of the source material are discussed. The results obtained for Sn-116 and Cu-65 are found to agree with data from other work. Orig. art. has 3 figures, 5 formulas, and 1 table.

ASSOCIATION: Institut yadernoy fiziki Akademii nauk Kazakhskoy SSR (Nuc. Phys. Inst. Acad. Sci. Kazakh SSR); Institut yadernoy fiziki Akademii nauk Uzbekskoy SSR (Nuc. Phys. Inst. Acad. Sci. Uzbek SSR)

SUBMITTED: 15Mar63

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SUB CODE: PH

NO REF SOV: 002

OTHER: 006

2/4

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619920015-8" ACCESSION NR: AP4042362

s/0056/64/047/001/0016/0020

AUTHORS: Shubny*y, Yu. K.; Kaipov, D. K.; Begzhanov, R. B.

TITLE: Resonance scattering of gamma quanta by the nuclei As-75, Sb-123, and Re-187

SOURCE: Zh. eksper. i teor. fiz., v. 47, no. 1, 1964, 16-20

TOPIC TAGS: arsenic, antimony, rhenium, radioactive isotope, excited state, emission linewidth, gamma scattering, resonance scattering

ABSTRACT: The nuclear scattering method was used to determined the lifetimes of the excited states of As⁷⁵, Sb¹²³, and Re¹⁸⁷ with energies 0.265, 0.161, and 0.686 MeV, respectively. The sources were the radioactive isotopes Ge⁷⁵, Sn¹²³, and W¹⁸⁷. The use of solid sources for some measurements made the time between collisions of the recoil nuclei with the surrounding atoms much shorter than the life-

Card 7/3

ACCESSION NR: AP4042362

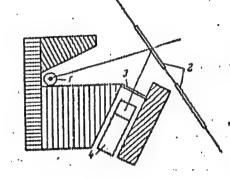
ENCLOSURE: 01

Diagram of experimental set-up:

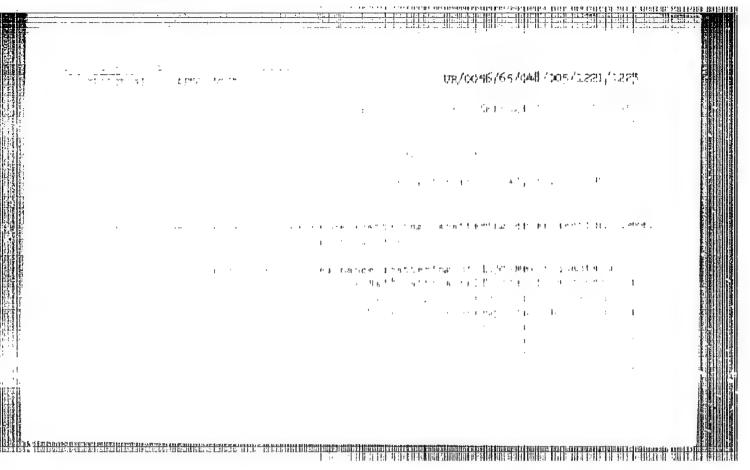
1 - electric oven with source (Ge⁷⁵ or W¹⁸⁷)

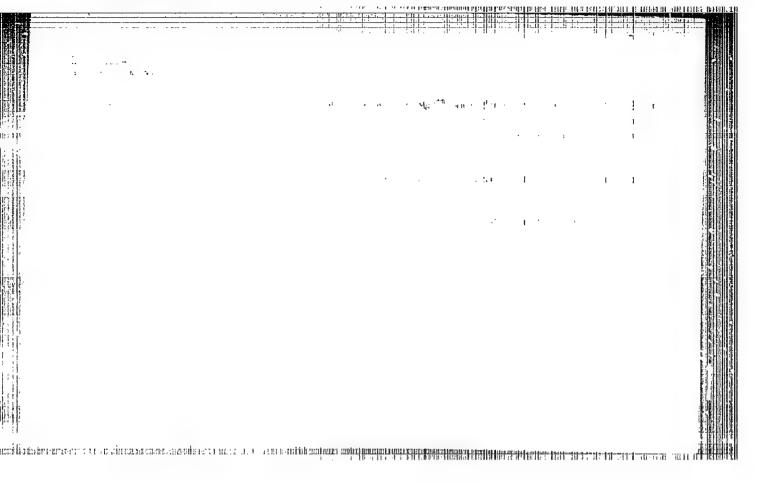
2 - scatterers

3 - lead or copper absorber (Sn¹²³)
4 - FEU-12B photomultiplier with
NaI(T1) crystal



Card 3/3





KAIFOV, D.E.: CHUBHYY, Yu.K.; AMERBAYEV, V.M.; KAZANGAPOV, A.; KOSYAK, Yu.G.

Resonance scattering of gamma quanta by Mg²⁴ nuclei. Zhur. eksp. i teor. fiz. 49 no.5:1221-1223 My '65. (MINA 18:7)

1. Institut yadernoy fiziki AN Kazakhskoy SSR.

THE REPORT OF THE PROPERTY OF STREET PROPERTY OF STATES OF THE PROPERTY OF THE STATES OF THE STATES OF THE PROPERTY OF THE PRO L 38207-66 EWT(m) ACC NR: AP6022034 SOURCE CODE: UR/0120/66/COO/003/0209/0210 AUTHOR: Zhetbayev, A. K.; Kaipov, D. K.; Smirin, L. N.; Tyshchenko, A. P. ORG: Institute of Nuclear Physics, AN KazSSR, Alma-Ata (Institut yadernoy fiziki AN KazSSR) TITLE: Cell for electrodeposition of radioactive isotopes SOURCE: Pribory i tekhnika eksperimenta, no. 3, 1966, 209-210 TOPIC TAGS: electrodeposition, isotope, radioactive isotope ABSTRACT: A better design of an electrolytic cell (as compared to those described by A. Mastachi, Nucl. Instr. and Meth., 1964, v. 26, no. 2, 219 and I. S. Stephen, ibid., p. 269) is suggested. U-tube 1 (see Fig. 1) houses Pt anode 2 and terminates with stainless-steel cathode 3; solenoid 4 produces a pulsating magnetic field for stirring the electrolyte. The radioactive isotope is deposited on substrate 5. The cell was used for preparing Mossbauer Co57 sources; electrolyte composition and other data are reported. Fig. 1. Electro-Orig. art. has: 1 figure. [03] deposition call SUB CODE: 20, 09 / SUBM DATE: 20Apr65 / OTH REF: 003/ ATD PRESEST 044 Card 1/1 012-VIC: 621.039.554

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619920015-8"

SLIPCHENKO, P.S., glav. red.; KUCHERENKO, K.R., red.; FILONECKO, K.I., red.; LESNAYA, A.A., red.; ABYZOV, A.G., red.; BUDNIKOV, M.S., red.; VETROV, Yu.A., red.; GLAEKTY, V.I., red.; GOLOSOV, V.A., red.; IZMAYLOV, V.G., red.; KANYUKA, N.S., red.; KAIPOV, E.A., red.; KLINEUKH A.M.. red.: KUSHNAREV, N.Ye., red.; LUYK, A.I. kand. tekhn. nauk, red.; NEMENKO, L.A., red.; RYBAL'SKIY, V.I., red.; SITHIK, I.P., red.; FEDOSENKO, N.M., red.; FILAKHTOV, A.L., kand. tekhn. nauk, red.; KHILOBOCHENKO, K.S., red.; VORONKOVA, L.V., red.; KIYANICHENKO, N.S., red.

[Construction industry: technology and mechanization of the construction industry; the economics and organization of construction] Stroitel'noe proizvodstvo: tekinologiia i mekhanizatsiia stroitel'nogo proizvodstva; ekonomika i organizatsiia stroitel'stva. Kiev, Budivel'nyk, 1965. 180 p.

(MIRA 18:4)

1. Nauchno-issledovatel'skiy institut stroitel'nogo proizvodstva. 2. Nauchno-issledovatel'skiy institut stroitel'nogo proizvodstva (for Luyk, Filakhtov).

BAIROV, G.A., kand.med.nauk; KAIPOV, F.I.

Late results of surgical treatment of recent fractures in children. Ortop.travm.i protes. 20 no.4:24-29 Ap 159. (MIRA 13:4)

1. Iz kafedry khirurgii detskogo vozrasta (i.o. zav. - kand.med. nauk G.V. Chistovich) Leningradskogo pediatricheskogo meditsinsko-go instituta (dir. - prof. N.T. Shutova).

(FRACTURES, surg.

of recent fract. in child, remote results (Rus))

KAIPOV, F.I.

Late results of the treatment of neurotic phlagmons in newborn infants. Pediatria 38 no.10:79-81 0 '60. (MIRA 13:11)

1. Iz kliniki khirurgii detskogo vozrasta (zev. - dektor med.nauk S.Ya. Poletskiy) Leningradskogo pediatricheskogo meditsinskogo instituta (dir. - prof. N.T. Shutova). (PHLEGMON) (INFANTS (NEXBORN)....DISEASES)

KAIPOV, F. I.; VOL'FBERG, Ye. D.

Phlegmon in newborn infants. Khirurgiia no.6:28-33 Je 162. (MIRA 15:7)

1. Iz kafedry khirurgii detskogo vozrasta (zav. - doktor meditsinskikh nauk G. A. Bairov) i kafedry patologicheskoy anatomii (zav. - prof. V. G. Chudakov) Leningradskogo pediatri-cheskogo meditsinskogo instituta.

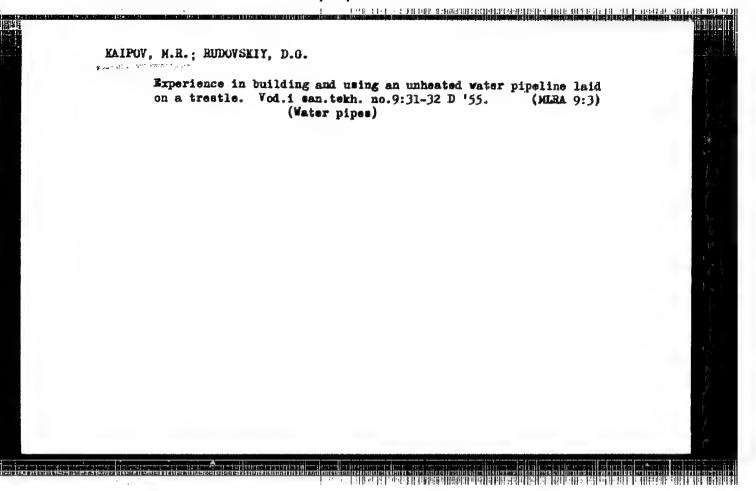
(INFANTS(NEWBORN) __ DISEASES) (PHLEGMON)

Froblem of the choice of a method for replacing defective skin in newborn infants. Zdravookhraneniye 6 no.1:41-44, J-F'63.

(MHA 16:8)

1. Iz kliniki khirurgii detskogo vozrasta (zav. - doktor med. nauk G.A.Bairov) Leningradskogo pediatricheskogo meditsinskogo instituta.

(SKIN GRAFTING) (INFANTS (NEWBORN)--SUHGERY)



KAIPOV, M.R., kand. tekhn. nauk Reusable flange for sheathing water pipes. Biul. stroi. tekh. 12 no.6:12 Je 155. (MIRA 11: (MIRA 11:12) (Pipe flanges)

KAIPOV, M.R., kand. tokhn. nauk; CIDERNVATSKIY, M.L., inzh.

Constructing suction pipes in water intake installations.
Biul. stroi. tekh. 12 no. 10:17 0 '55. (MEA 12:1)

1. Vostoktransspetsstroy.

(Water pipes) (Water-supply engineering)

KAIPOV, R.L.; ZIV, D.M.; LEYPUNSKAYA, D.I.; SAVOSIN, S.I.; FEDOROV, V.V.;
FRADKIN, G.M.; SHIMELEVICH, Yu.S.; BASIN, Ya.N.; KUKHARENKO, N.K.;
SMESTAKOV, B.I.

Use of Ac - Be neutron sources in industrial geophysics. Atom emerg.
16 no.3:269-270 Mr '64.

KAIPOVA, N., inzh. po tekhnicheskoy informatsii

Mechanization of the pumping out of lubricants from the spindle seats of spinning and twisting machines. Tekst. prom. 23 no.6:78

Je *63.

1. Tashkentskiy tekstil*nyy kombinat.

(Spinning machinery...Maintenance and repair)

STOROZHENKO, V.N.; KAIPOVA, N.G., inzh. po tekhnicheskoy informatsii

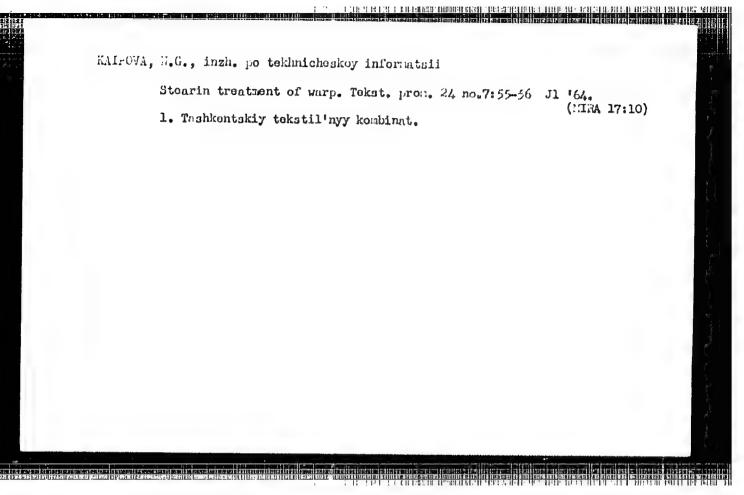
Double-layer elastic rubber coatings. Tekst. prom. 23 no.9: 52-53 S '63. (MIRA 16:10)

 Nachal'nik otdela rezino-tekhnicheskikh indeliy Tashkentskogo tekstil'nogo kombinata (for Storozhenko).
 Tashkentskiy tekstil'nyy kombinat (for Kaipova).
 (Spinning machinery) (Rubber coatings)

PIVKINA, A.M.; [KAIPO/A, N.G., inthener po tekhnicheskey informatsii

Scientific and technical conference at the Tashkent Textile Combine. Tekst. prom. 25 no.7:82-33 Jl 465. (MIEA 18:8)

1. Nachal'nik tekhnicheskogo ornela Tashkentskogo tekstil'nego kombinata (for Fivkim). 2. Tashkentskiy tekstil'nyy kombinat (for Kaipova).



KAIPOVA, Z.A.

Radiological observations on the dynamics of changes in the bones and soft tissues of the lower extremities in the early convalescent period of poliomyelitis. Med. zhur. Uzb. no. 2:24-27 F *61.

(MIRA 14:2)

l. Iz Uzbekskogo nauchno-issledovatel'skogo instituta rentgenologii, radiologii i onkologii (direktor - prof. D.M. Abdurasulov) i Tashkentskoy detskoy bol'nitsy No. 4 (glavnyy vrach - G.A. Zakar'yants).

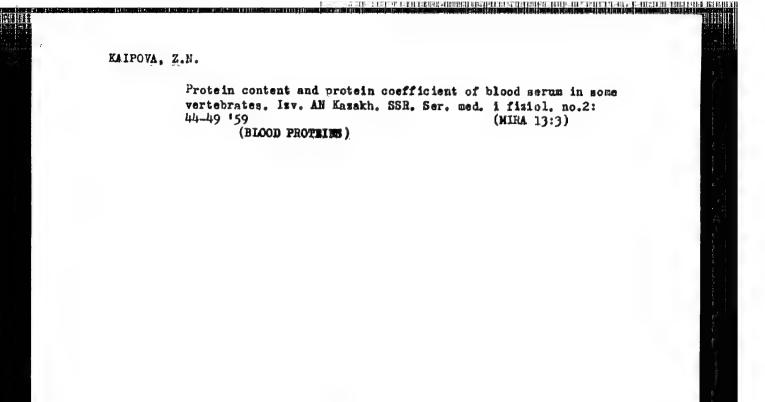
(POLIOMYELITIS) (EXTREMITIES, LOWER-RADIOGRAPHY)

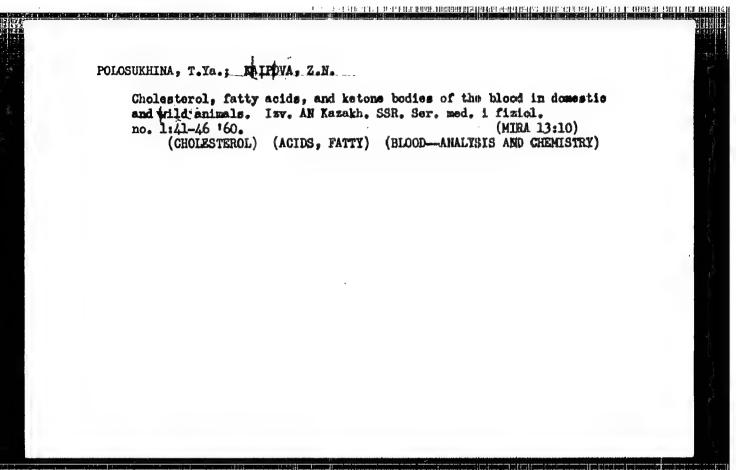
VASIL'CHENKO, R.S.; BULKKBATEVA, L.E.; KAIPOVA, Z.W.; VASIL'YEVA, Ye.W.

Lymph circulation changes and some biochemical ingredients of lymph in passive movement of animal extremities. 1zv. Ah Kazakh.

SSR, Ser, med. i fiziol, no.2:6-10 '59' (MIRA 13:3)

(LYMPH) (EXERCISE)





CAIRGVA, M.H., VALEROVA, M.S., BYCHUVA, A.L., KURGVIKAVA, M.I., PARELI, Z.A., LESHUTNIKOVA, M.I., SULAYEVA, L.S., UTESHEV, A.B., VERHOLIBIDH, F.A., POLOSUKHENA, T.YA., (USSR)

"Special Aspects of the Metabolism of Some Substance in Fadiation Desease in Dogs."

Report presented at the 5th Int'l. Biochemistry Congress, Moscow, 10-16 Aug 1961.

VASIL'CHENKO, R.S.; BULEKBAYEVA, L.E.; KAIPOVA, Z.N.; VASIL'YEVA, Ye.N.

Changes in the lymph flow and some biochemical lymph components following the stimulation of the vagus nerve. Report No.3. Izv. An Kazakh. SSR. Ser. med. i fiziol. no.1:11-15 %61. (MIRA 15:4) (LYMPH)

VASIL'GHENKO, R.S.; BULEKBAYEVA, L.E.; KAIPOVA, Z.N.; VASIL'GEVA, Ye.N.

Changes in the lymph flow and some biochemical lymph components following the stimulation of the sciatic nerve and sinocarctid zone. Report No.2. Izv. AN Kazakh. SSR. Ser. med. i fiziol. no.1:3-10 '61.

(MINA 15:4)

(LYMPH) (SCIATIC NERVE) (CAROTID SINUS)

POLOSUKHIWA, T.Ya.; VALITOVA, M.S.; DYAKOVA, A.L.; KAIPOVA, Z.N.; KURCVSKAYA, N.I.; RESIETHIKOVA, M.I.; SULAYEVA, L.S.

> Effect of X rays on lipid metabolism in the dog liver. Vop. med. khim. U no.2:192-199 Mr-Ap 162. (MIRA 15:4)

1. Chair of Biological Chemistry, Kazakh State Medical School, 1. Gna... Alma-Ata. (LIVER)

(LIPID METABOLISM) (X RAYS-PHYSIOLOGICAL EFFECT)

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619920015-8"

VERBOLOVICH, Petr Alekseyevich; POLOSUKHINA, Tat'yana Yakovlevna;

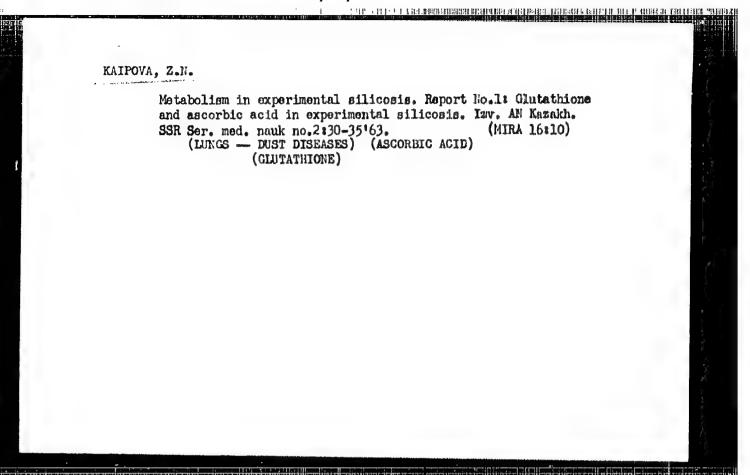
KAIPOVA, Zova Nikolayevna; MAKETEV, Aleksandr Fedorovich;
GOLODOVA, Lidiya Semenovna; POGOZHEV, A.S., red.;
ROROKINA, Z.P., tekhn. red.

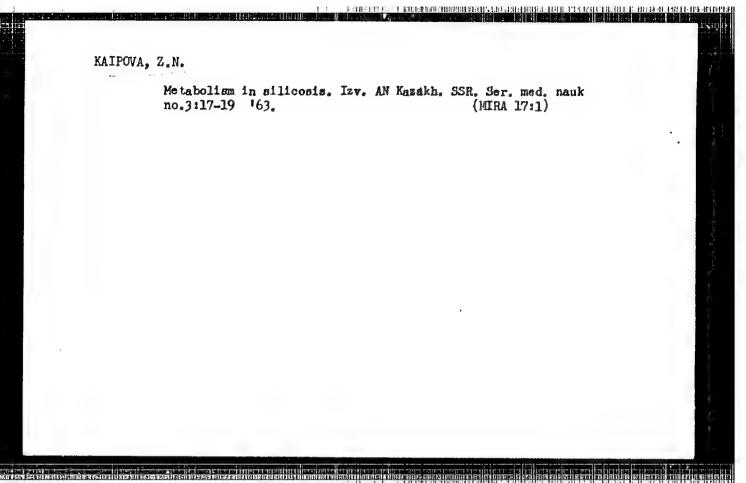
[Laboratory work in organic, physical, colloid, and biological chemistry] Praktikum po organicheskoi, fizicheskoi, kolloidnoi i biologicheskoi khimii. Alma-Ata, Izd-vo Akad, nauk Kazakhskoi SSR, 1963. 345 p. (MIRA 16:6) (CHEMISTRY, MEDICAL AND PHARMACEUTICAL--LABORATORY MANUALS)

VASIL'CHE KO, R.S.; HULEKBAYEVA, L.E.; KAIPOVA, Z...; VASIL'YEVA, Ye.N.

Mechanism of changes in the lymph circulation induced by stimulation of the mechanoreceptors of organs of the gastro-intestinal tract. Izv. All Kazakh. SSR Ser. med. nauk no.2:
3-12'63. (MIRA 16:10)

(LYMPHATICS) (ALIMENTARY CANAL — INDERCVATION)





VASIL'CHENKO, R.S.; BULEKBAYEVA, L.E.; KAIPOVA, Z.N.; VASIL'TEYA, Ye.N.

Changes in the lymph circulation and some biochemical lymphatic ingredients in the stimulation of the intestinal chemoreceptors. Report No. 5. Izv. AN Kazakh. SSR. Ser. med. nauk no.1:12-14 163.

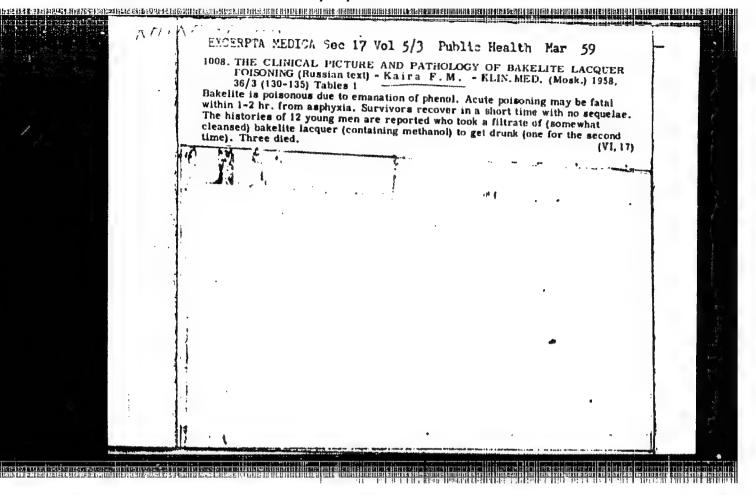
(MIRA 16:10)

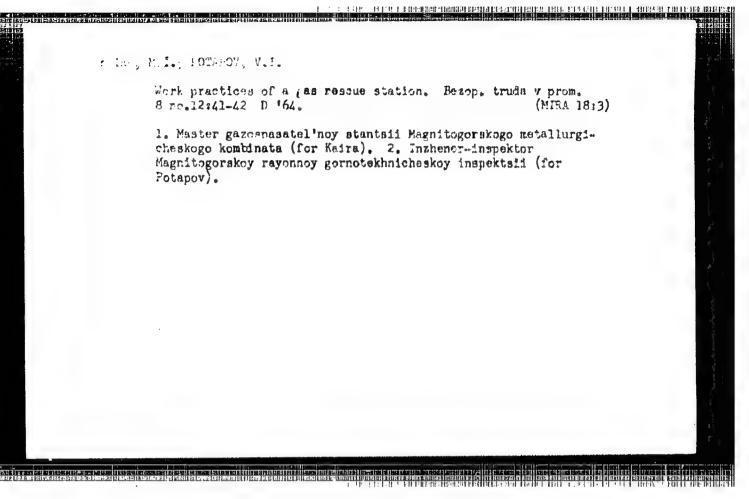
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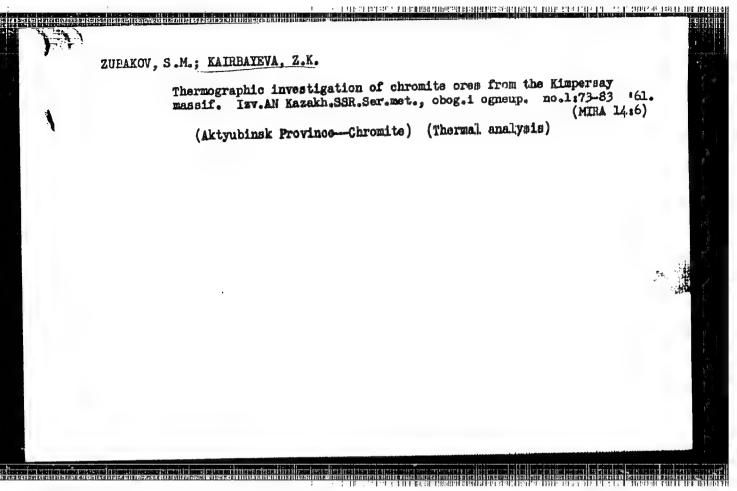
VASIL'CHENKO, R.S.; BULEKRAYEVA, L.E.; KAIPOVA, Z.R.; VASIL'YEVA, Ye.N.

Mechanism of the change in lymph circulation due to the stimulation of the receptors of the emunctory organs. Izv. AN Kazakh.

SSR. Ser. med. nauk no.116-24 '64 (MIRA 17:7)







GOLDMAN, N.M.; P. W.C.AREV, V.C.; GALET . V.L.; P. WAR VE, T. V.; KAIRBAYEVA, Z.K.

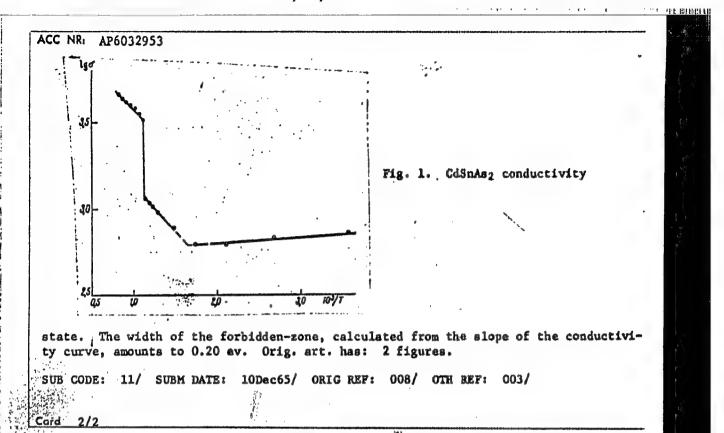
Role of potassium in the leaching of nepheline rocks. Trudy Inst. met. 1 obog. AN Fazakh. SSR 8:72-76 *65 (MFRA 17:8)

BUVALKINA, L.A.; KAIRGALIYEVA, A.; SOKOL'SKIY, D.V.

Natural aluminum silicates of some Kasakhstan deposits as catalysts in cracking reactions. Vest.AN Kasakh.SSR 12 no.12: 13-23 D *56. (MLRA 10:2)

(Aluminum silicates) (Cracking process)

Several Kazakhstan clays are effective cracking catalysts, suitable for the production of gasoline from petroleum fractions. Addm. of \$102 usually depresses the catalytic activity of the natural products.



к.

KAIRIUKSTIS, L.

USSR/Forestry - Forest Cultures.

: Ref Zhur - Biol., No 21, 1958, 95845

Author

Abs Jour

Kairiukstis, L.

Inst Title

On the Cultivation of Green Pseudo-Tsuga.

Orig Pub

: Soc. Zemes ukis, 1957, No 3, 41-43

Abstract

A plantation is described of green pseudo-tsuga set in 1939 in the Shilutskiy Leskhoz on average pedsolic sands with occurrence of ground water at a depth of 1.5 m. The planting was placed in plats 35 x 35 cm under a camppy of 17-year-old sparse birch groves with young spruce stack. The plots were not cultivated and hale planting was used. The greatest average height and diameter of the trees were observed in pure the birch grove with sparse spruce young stock, the least - in the birch grove with a significant admixture of spruce. Pseudo-tsuga plantings are recommended in the forests of the western and south-

Card 1/2

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KHIRIUKSTIE L.

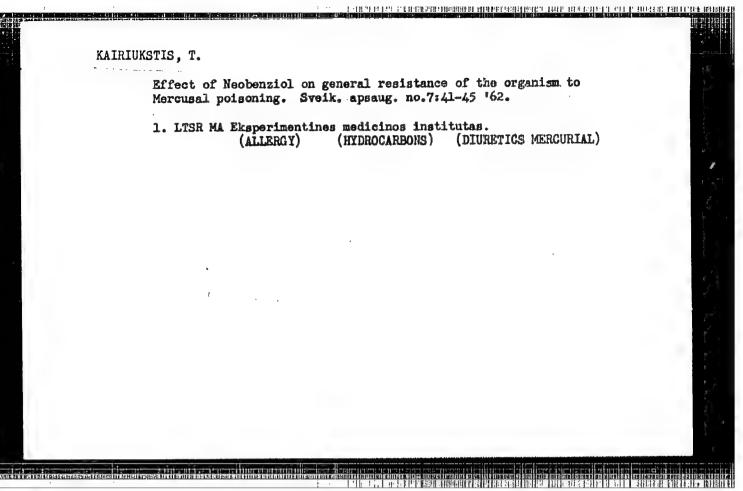
KAIRLUKSTIS, L.

Experimental sectors in forest districts. p. 41

MUSU GIRIOS (Mislu ukio ir misko pramones ministerija ir Gemtos apsaugos komitetas prie ministru tarybos) Vol. 8, Aug. 1959 Vilnius, Poland

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1. Prodsedatel na Akademiiata na maukite na SSSR (for Neameyanov).
2. Predsedatel na Akademiiata na pedagogicheskite nauki v RSFSR (for Kairov). 3. Predsedatel na Bulgarskata akademiia na naukite (for Pavlov). 4. Predsedatel na Akademiiata na selskostopanskite nauki "V.I. Lenin" (for Lobanov).

CONTROL OF THE PROPERTY OF THE

NESMEYAHOV, A.N.; LOBANOV, P.P.; BAKULEV, A.N., laurent Leninskoy premii; BEKHTIN, N.V.; KAIROV, I.A.

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Jl *57. (MERA 10:8)

1. Prezident Akademii nauk SSSR (for Nesmeyanov). 2. Prezident Vsesoyusnoy Akademii seliskokhozyaystvennykh nauk imeni V.I. Lenina (for Lobanov). 3. Prezident Akademii meditsinskikh nauk SSSR (for Bakulev). 4. Prezident Akademii pedagogicheskikh nauk RSFSR (for Kairov). 5. Prezident Akademii stroitelistva i arkhitektury SSSR (for Bekhtin).

(Youth---Congresses)

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AFANASENKO, Ye.A.; KAIROV, I.; VINOGRADOV, N.

Organization of housekeeping chores in general schools, boarding schools, and orphanages. Gig. i san. 25 no. 6:111-114 Je '60. (MIRA 1442)

1. Ministr prosveshchniya RSFSR (for Afanasenko). 2. Prezident Akademii pedagogicheskikh nauk (for Kairov). 3. Ministr zdravookhraneniya RSFSR (for Vinogradov). (STUDENT ACTIVITIES)

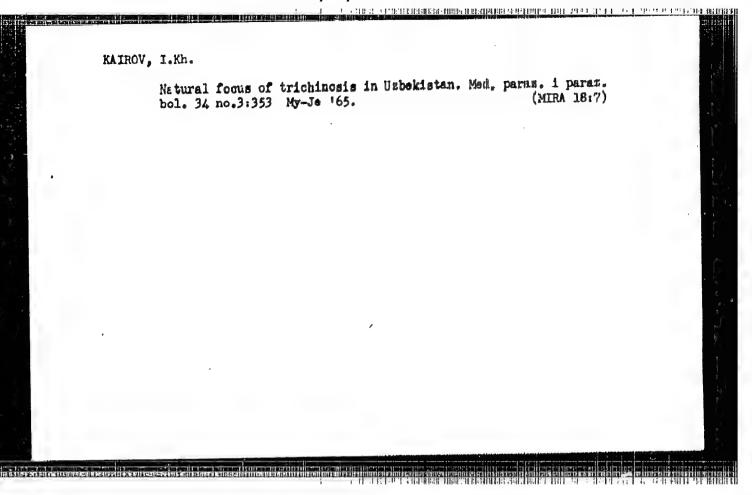
KAIROV, Ivan Andreyevich

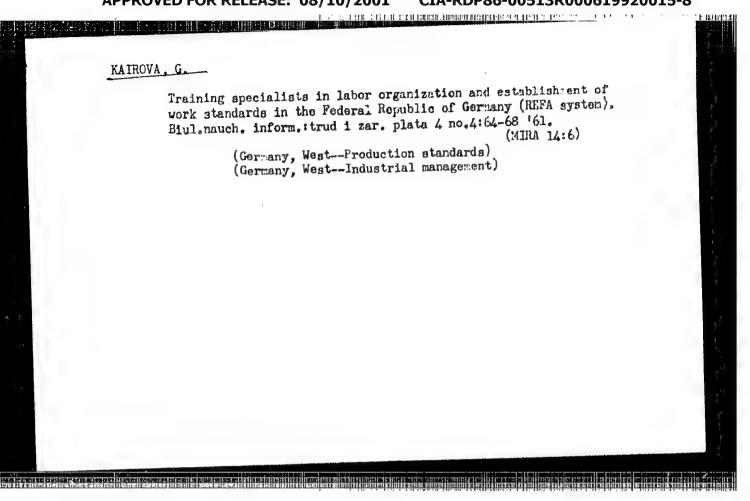
Our school's today and tomorrow. Zdorov's no.9:2-3 S '62.

(MIRA 15:9)

1. Prezident Akademii pedagogicheskikh nauk RSFSR.

(SCHOOL HYGIENE)



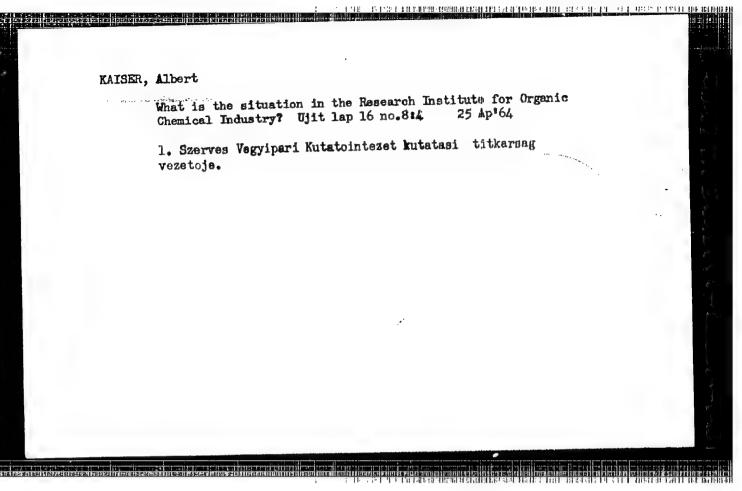


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KAISER, E.

Pituitary changes after atrophy. Gyernekgyogyaszat 4 no.6:176-179 June 1953. (CIMI 25:1)

1. Institute of Anatomy (Director -- Prof. Dr. Janos Szentagothai) and Children's Clinic (Director -- Prof. Dr. Odon Kerpel-Fronius), Pecs Medical University.

FULOF, Tibor, dr.,; KAISER, Eva, dr.

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(INFANT NUTRITICH DISCRUMES, physiol.

changes in weight of endocrine glands in atrophies, determ. of cell nucleus volume of glands (hun))

(RHDOGRINE GLANDS, in various dis.
infantile atrophies, changes in weight & determ. of cell nucleus volume (Hun))

KAISER, Eva, F., Dr.; BODO, Tibor, Dr.; GYENGESI, Lasslo, Dr.

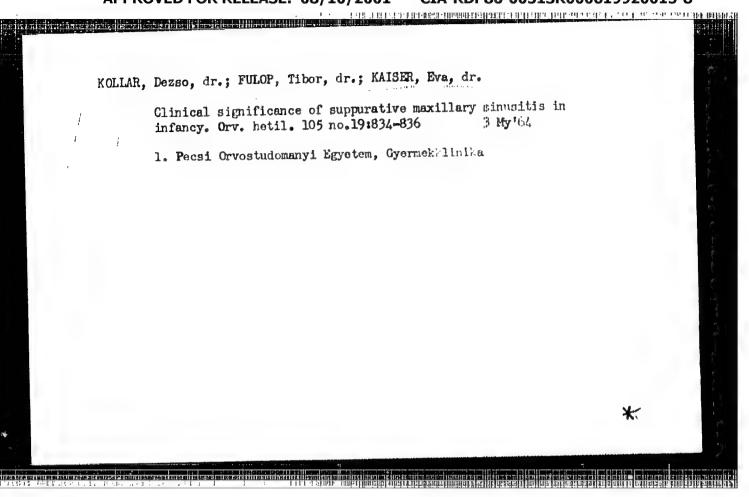
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1. Pecsi Orvostudomanyi Egystem, Gyermskklinika.

POISONING in inf & child)



FULOP, Tibor, dr.; KAISER, Eva, dr.; FARKAS, Gabor, dr.

Treatment of hypsarrhythmia associated with flaxor spasm with ACTH and prednisolone. Orv. hetil. 105 no.11:497-500 15 Mr.'64.

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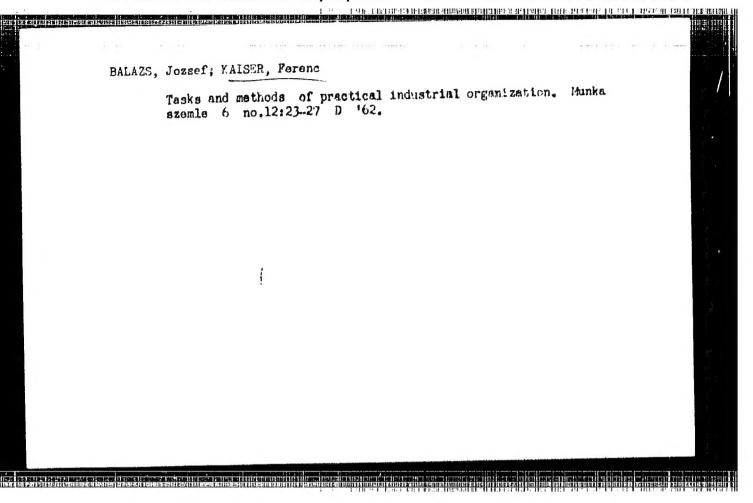
JANOSFY, K.; KAISER, E.; TAPBA, M.; VUKOV, Konstantin

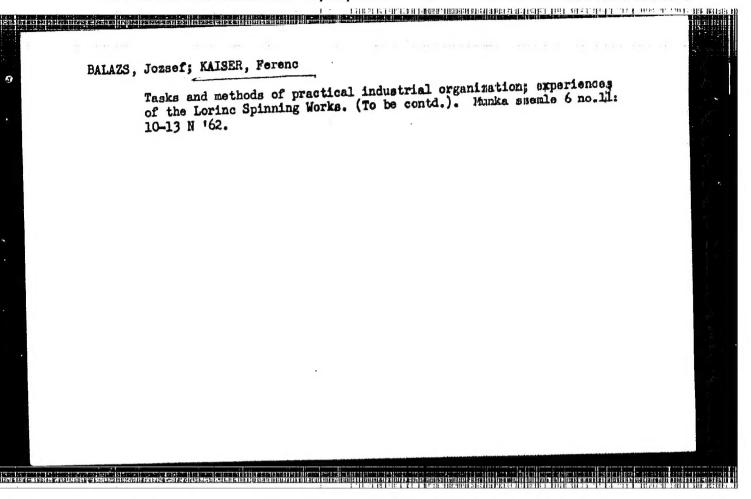
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1. Cukoripari Muszaki Tanacs munkabizottsaga. 2. "Cukoripar" szerkeszto bizottsagi tagja (for Vukov).

cides the fate of the decompensated cases of enterities. In the management of these cases, the continuous control of the pH in immature infants and of these cases, the atrophied ones is of great importance. All 20 referthe blood sugar in the atrophied ones is of great importance. All 20 referthe blood sugar in the atrophied ones is of great importance. All 20 referthe blood sugar in the atrophied ones is of great importance.

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